

Resource Summary Report

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Functional Glycomics Research

RRID:SCR_013337

Type: Tool

Proper Citation

Functional Glycomics Research (RRID:SCR_013337)

Resource Information

URL: <http://www.functionalglycomics.org>

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Description: This Gateway is a collaboration between the Consortium for Functional Glycomics (CFG) and Nature Publishing Group (NPG), providing a comprehensive resource for functional glycomics research. Use this site to stay up-to-date on glycomics news, request CFG resources, and search databases of glycan-binding proteins, glycan structures, and glycosyltransferases. The Functional Glycomics Update provides a one-stop overview of the latest research in glycobiology for specialists and non-specialists alike. It is updated monthly to bring you the latest news and selected highlights from Nature journals. In addition, it will provide two featured articles a month on the most relevant advances in the field published in NPG and other top journals. By collating new articles into a key worded research library, we hope to provide a continuously updated and broad overview of the field. Sponsor. The CFG is a large international research initiative funded by NIGMS to elucidate the roles of carbohydrate-protein interactions in cell communication at the cell surface.

Synonyms: Functional Glycomics

Resource Type: data or information resource, portal, topical portal

Keywords: FASEB list

Resource Name: Functional Glycomics Research

Resource ID: SCR_013337

Alternate IDs: nif-0000-30382

Record Creation Time: 20220129T080315+0000

Record Last Update: 20260821T193948+0000

Ratings and Alerts

No rating or validation information has been found for Functional Glycomics Research.

No alerts have been found for Functional Glycomics Research.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 256 mentions in open access literature.

Listed below are recent publications. The full list is available at [dkNET](#).

Li H, et al. (2026) LeGenD: High-throughput N-glycan profiling using explainable AI and lectin profiling. *The Journal of biological chemistry*, 302(7), 113234.

Messina A, et al. (2026) IgG Glycosylation Analysis in Patients with Ring14 Syndrome Unveils Novel Pathomechanisms and New Therapy Perspectives. *Biomolecules*, 16(6).

Caballero-Mendez LC, et al. (2026) Evaluation of Colombian silk fibroin hydrogels functionalized with recombinant LSECtin for intervertebral disc tissue engineering. *PloS one*, 21(5), e0349634.

Goli M, et al. (2025) Exploring the Impact of Mitoquinone Supplementation on Glycan Profiles in a Repeated Mild Traumatic Brain Injury Mouse Model. *Neurotrauma reports*, 6(1), 525.

Nuschy L, et al. (2025) Enzymatic tailoring of anionic glycans for characterizing lectin and antibody specificities in a microarray format. *The Journal of biological chemistry*, 301(12), 110915.

Benjamin SV, et al. (2025) Application of a human lectin array to rapid in vitro screening of sugar-based epitopes that can be used as targeting tags for therapeutics. *Glycobiology*, 35(4).

Li Q, et al. (2025) DC-SIGN (CD209)-mediated interactions between bacteria, lung cancer tissues, and macrophages promote cancer metastasis. *Infectious agents and cancer*, 20(1), 40.

Helm J, et al. (2024) Non-targeted N-glycome profiling reveals multiple layers of organ-specific diversity in mice. *Nature communications*, 15(1), 9725.

Stadlmann J, et al. (2024) Non-targeted isomer-sensitive N-glycome analysis reveals new layers of organ-specific diversity in mice. *Research square*.

Bloch Y, et al. (2024) The crystal structure of Nictaba reveals its carbohydrate-binding properties and a new lectin dimerization mode. *Glycobiology*, 34(12).

Edvardsen PKT, et al. (2024) Exploring roles of the chitinase ChiC in modulating *Pseudomonas aeruginosa* virulence phenotypes. *Microbiology spectrum*, 12(7), e0054624.

Izadi S, et al. (2024) Plant-derived Durvalumab variants show efficient PD-1/PD-L1 blockade and therapeutically favourable FcR binding. *Plant biotechnology journal*, 22(5), 1224.

Shilova N, et al. (2024) Some Human Anti-Glycan Antibodies Lack the Ability to Activate the Complement System. *Antibodies (Basel, Switzerland)*, 13(4).

Heimburg-Molinaro J, et al. (2024) Insights Into Glycobiology and the Protein-Glycan Interactome Using Glycan Microarray Technologies. *Molecular & cellular proteomics : MCP*, 23(11), 100844.

Kogelmann B, et al. (2024) A genome-edited *N. benthamiana* line for industrial-scale production of recombinant glycoproteins with targeted N-glycosylation. *Biotechnology journal*, 19(1), e2300323.

Ruocco V, et al. (2023) Impact of mutations on the plant-based production of recombinant SARS-CoV-2 RBDs. *Frontiers in plant science*, 14, 1275228.

Beihammer G, et al. (2023) *Pseudomonas syringae* DC3000 infection increases glucosylated N-glycans in *Arabidopsis thaliana*. *Glycoconjugate journal*, 40(1), 97.

Simplicien M, et al. (2023) Plant lectins as versatile tools to fight coronavirus outbreaks. *Glycoconjugate journal*, 40(1), 109.

Kogelmann B, et al. (2023) In planta expression of active bacterial GDP-6-deoxy-d-lyxo-4-hexulose reductase for glycan modulation. *Plant biotechnology journal*, 21(10), 1929.

Sun L, et al. (2023) Codon optimization regulates IgG3 and IgM expression and glycosylation in *N. benthamiana*. *Frontiers in bioengineering and biotechnology*, 11, 1320586.